

Canon



Precision-Engineered
Genuine Canon
Video Lens

Mini **DV**

optura 200 MC

DIGITAL VIDEO CAMCORDER

**Part Camcorder,
Part Camera
Part of Your Life**

**Go Digital
Go Canon**



www.canondv.com



Dedicated to a design that is both full-featured ...

Part Camcorder, Part Camera, Part of Your Life...The new OPTURA200MC from Canon is brilliantly designed and exceptionally equipped with features that cater to even the most discerning videomaker or digital photographer.

DV Format

Mini DV is the new preferred format for personal and broadcast-quality video, highly regarded for its high audio and image quality. With up to 540 lines of horizontal resolution and minimum color noise, Mini DV delivers a 20% clearer picture than analog camcorder formats. All this, in a handy, super-compact cassette.

Mini **DV** Digital Video Cassette



High Resolution Megapixel CCD

1.33 MEGA PIXELS

The OPTURA200MC features a 1/4 inch megapixel CCD. A sharp, megapixel compatible lens and optical image stabilization create high resolution still images. A still image is recorded on a memory card at an image size of 1280 x 960 pixels.



10x Optical Zoom Lens (40-200x Digital Zoom*)

What sets a Canon camcorder apart from all the others? It's the only camcorder made by a company renowned for high-quality professional optics. Our vast expertise in designing and crafting precision lenses for 35mm and broadcast TV cameras also goes into every camcorder lens we make. The OPTURA200MC's 10x optical zoom lens delivers superb definition and contrast, taking full advantage of the DV format. The digital zoom extends the camcorder's magnification from 40 to an incredible 200x, revealing details too small to see with the naked eye.

* Up to 40x when using a memory card



10x

10x/200x
OPTICAL ZOOM / DIGITAL ZOOM



200x Digital

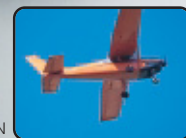


Image Stabilizer ON

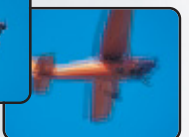


Image Stabilizer OFF

Optical Image Stabilizer

Canon utilizes the finest method of image stabilization available: optical. While other manufacturers use an electronic or digital image stabilization system, Canon's lens design includes a dedicated optical element that preserves image quality so your videos always look smooth, steady and natural...whether shooting hand-held at full telephoto or from a moving vehicle. The optical method is also the perfect complement to the outstanding image quality of DV and offers superior shake reduction when light levels are low and while zooming.

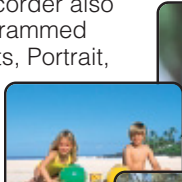
OPTICAL
IMAGE
STABILIZER

Program Auto Exposure

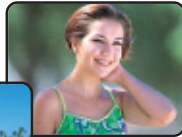
While the OPTURA200MC's Easy Recording mode is fine for most shooting situations, the camcorder also includes eight additional pre-programmed auto exposure modes (Auto, Sports, Portrait, Spotlight, Sand & Snow, Low Light, Night and Super Night) each carefully designed to give you the best possible image results under special shooting conditions.



Spotlight



Sand & Snow



Portrait



Sports



Low Light

Manual Controls

The fully-automatic OPTURA200MC gives great results even in the hands of a novice, while experts will appreciate the manual focus, exposure, white balance and shutter speed controls.

Night Mode and Super Night Mode

Even when the light has faded, you can keep on shooting with the OPTURA200MC's Night and Super Night Mode. The camcorder selects the optimal shutter speed based on the brightness of the subject, allowing improved brightness and color. In Super Night Mode, the Super Night LED lights up to illuminate the subject. Now you can capture the action without turning the lights on.



SD Memory Card and MultiMediaCard

The OPTURA200MC expands video possibilities with a built-in slot for an SD (Secure Digital) Memory Card or a MultiMediaCard, in addition to a Mini DV cassette. These memory cards can record, store and manage still images and small video clips. Easily transfer still images and movie clips to your PC directly from the camcorder using USB and IEEE 1394. Copy still images from videocassette to memory card, and vice versa. Produce effects not possible with just a cassette using the Card Mix Effects. Choose one of the sample images provided on the supplied SD Memory Card (such as picture frames, backgrounds and animations) and combine it with the live video recording.

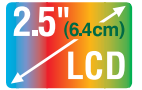


MultiMediaCard



Flexible LCD View Screen and Color Viewfinder

The OPTURA200MC's bright 2.5" LCD view screen that makes it easy to compose sensational shots without having to squint into the viewfinder. You can rotate the screen for high-or low-angle shots, or turn it around 180° to record yourself. When you're done shooting, the screen is perfect for reviewing your scenes.



IEEE 1394 DV Terminal

An IEEE 1394-compliant DV terminal lets you connect the OPTURA200MC to a DV-compatible computer or another Canon DV camcorder. Transfer your digital movies to your computer's hard disk, edit your scenes, then use them to create high-impact Web sites, video e-mail, interactive CDs and DVDs, or a personal video album.



USB Terminal



Allows high-speed transfer of photos and movie clips from your SD Memory Card or MultiMediaCard to your computer. By using the USB cable and software provided, you can process and organize your images and video on your PC.



Included Software

The OPTURA200MC Kit includes a suite of helpful software for image management and editing: **ZoomBrowser EX** (Windows) and **ImageBrowser** (Macintosh) which let you easily download, browse, archive, and retouch your photos. Automatically resize images and attach them to e-mail, arrange them for printing, and add text. **ArcSoft PhotoImpression** lets you easily add special effects, edit them, or use them to create attractive greeting cards and calendars. **ArcSoft VideoImpression** provides a wide selection of easy-to-use tools for editing and applying special effects to movies, or attaching them to e-mail. **DV Messenger** allows you to conduct an Internet videoconference through IEEE1394 with Microsoft Windows Messenger. The OPTURA200MC's camera and VCR operations can also be controlled by the software.



... and elegant in its simplicity.



Video Mode

The OPTURA200 **MC** utilizes high-precision optics, a premium image stabilization system, and the latest processing technology to deliver outstanding video in all situation.

Motion JPEG

The OPTURA200 **MC** lets you record short movie clips in Motion JPEG format onto the inserted memory card, for clear images and smooth playback. You may choose to record up to 10 seconds at 320 X 240 pixels or up to 30 seconds at 160 X 120 pixels.



1.33 Megapixel* High Resolution Photos

The OPTURA200 **MC** features advanced image processing, for capturing stunning, high-definition photos. They may be captured at a variety of different image quality and compression sizes to suit your needs. Capture up to 18 stunning 1.33 Megapixel* (1280X960 pixels) photos onto the included 8MB SD Memory Card. Photos may also be captured at 640X480 pixels in standard, fine, or super-fine compression.

* Total pixels

Digital Photo Mode

For added flexibility, you may take up to 700 still images on a Mini DV single tape (in SP Mode). The camcorder records the still images for approximately 6 seconds, as well as recording the sound for your verbal notes or narration. You can search through the recorded tape for your photos using the supplied remote control.



Continuous Shooting Mode

The OPTURA200 **MC** features a continuous shooting Mode, allowing you to capture a rapid succession of photos. Shoot up to 30 images at 3 frames per second in VGA (640X480) size or 10 images at 2 frames per second in SXGA equivalent size (1280X960). This function is linked with the flash, so continuous shooting is possible even in dark locations.



Built-in Flash

The built-in flash automatically rises up and fires according to the brightness of the surrounding area. Use to illuminate your subjects when shooting still images of night scenes, indoors or in other dark places. There are 4 modes: Auto, Red-eye reduction, Auto, Flash on, Flash off.

Auto +
Pop-up
Flash



Direct Print Choices

Connect your camcorder directly to a printer supporting the direct print function – the Canon Card Photo Printers CP-100 and CP-10 or the Canon Bubble Jet Printers S820D/S830D/S530D. A single cable connects the printer to your OPTURA200 **MC**, and you can perform trimming and other functions right from the camcorder. Choose from a range of different paper sizes with options for borderless or bordered prints.



Exif Print



The OPTURA200 **MC** supports Exif Print (2.2), the world-wide standard for enhancing communication between camcorders and printers. After connecting to an Exif Print-compliant printer, Exif Print uses and optimizes the camcorder's image data at the moment of shooting, resulting in high quality printed photos.



Multi-Angle Hand Grip

The grip belt gives a more stable feel. To eliminate often-awkward feel when holding vertical video camcorder, it is shaped in cylindrical form that gently tucks around your hand for natural and smooth operation.

My Camera Function

Personalize your camcorder by customizing the start-up image and the sound it makes for start-up, shutter, self-timer and other operations. Choose a start-up image from the included software CD, or use your own digital recordings.



PCM Digital Sound

The OPTURA200 MC offers two digital audio modes, 12 and 16-bit. You can select 16-bit mode for high-quality, CD-equivalent stereo sound, or 12-bit to record only two of four channels, leaving the remaining two channels free for you to record additional sound later.



**PCM
STEREO**

Digital Effects

The OPTURA200 MC features an impressive array of special digital image effects to add to your video recordings, for variety and impact at the touch of a button.



Faders

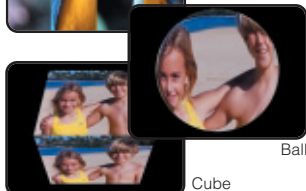
Add a variety of transitions to your movies with a fade to or from black. Choose from Fade Trigger, Wipe, Corner, Jump, Flip, Puzzle, Zigzag, Beam and Tide.



Special Effects

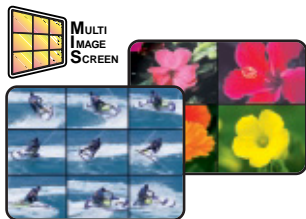
Add interest and variety to your images during recording and playback with Art, Black & White, Sepia, Mosaic, Ball, Cube, Wave, Color Mask or Mirror.

* In Card mode: Only black and white is available.



Multi-image Screen

Divide your screen into four, nine or sixteen pictures with the Image Capture function. You can choose the speed at which the images are captured: Manual, Slow, Moderate or Fast.



StitchAssist

By using the OPTURA200 MC's StitchAssist Mode, you can create magnificent panoramas. Just shoot your landscape from all angles, and transfer them to your computer. Then simply select and arrange your images in the correct order, and the supplied PhotoStitch software does the rest, aligning, overlapping and cropping the separate images to form one ultra-wide panoramic still image.



AV Insert and Audio Dubbing

Use this function to insert new video scenes recorded in SP mode from a VCR or another camcorder. If you've recorded your audio track in 12-bit audio mode, you can also add stereo sound from another audio source, or through the camcorder's internal microphone or an external microphone.



Analog Line-In/Converter

For instant editing, simply connect your TV, VCR or analog camcorder to the OPTURA200 MC. It will convert your analog video signal to digital, for direct transfer to your computer via IEEE1394 cable.* If you wish, you can first record the analog signal to DV tape, allowing you to create a high quality master of your original.



*The Analog to Digital Converter may not function depending on the software used.

- Lithium Ion Battery
- Microphone Terminal
- Built-in Speaker
- Photo Search/Date Search
- Time Code/Data Code
- Superb Playback Function
- S-Video Input/Output
- Self-Timer
- Confirming/Warning Beeps
- Zero Set Memory
- World Clock
- 16:9 Wide Screen TV Effect
- Remote Control
- Record Search & Review
- LANC Terminal*



*Connect only equipment bearing the LANC symbol.



Pictures simulated

Optional Accessories

Lithium Ion Battery Packs

Extra batteries for use with the camcorder.

Battery pack	Typical Recording Time*	
	Using the viewfinder	Using the LCD screen
BP-512 (supplied, single-capacity)	1 hr. 15 min.	1 hr.
BP-511 (optional, single-capacity)	1 hr. 15 min.	1 hr.
BP-522 (optional, double-capacity)	2 hr. 30 min.	2 hr. 5 min.
BP-535 (optional, triple-capacity)	4 hr.	3 hr. 25 min.

*Typical Recording Time: Approximate times for recording with repeated operations such as start/stop, zooming and power on/off. Actual time may vary.



CR-560 Charge Adapter/Car Battery Cable Kit

Connects to your car's cigarette lighter to power the camcorder or recharge BP-500 Series battery packs. Can also draw power the camcorder when connected to the CA-560 Compact Power Adapter.

WD-34 Wide-converter

Gives wide-angle coverage at 0.7x.



TL-34 Tele-converter

Increases focal length by 1.7x.



FS-34U Filter Set

Includes neutral density (ND 8) filter and MC protector.

ZR-1000 Zoom Remote Controller

Plug into the OPTURA200 MC's LANC terminal for control of record start and stop, zoom, focus and other functions.



SA-1 Adapter Bracket

Attach an external microphone or VL-10Li with this optional adapter.



VL-10Li Battery Video Light

Powerful 10W illumination. A BP-900 series battery attaches directly, for cable-free operation. (Optional 900 series battery and charger required)



DVM-E60/DVM-E80 Digital Video Cassette



DVM-CL Digital Video Head Cleaning Cassette



SC-1000 Soft Carrying Case



SC-A50 Soft Carrying Case

Genuine Leather



This mark identifies genuine Canon video accessories. When you use Canon video equipment, we recommend Canon-brand accessories or products bearing the same mark.

Availability differs from area to area.

Specifications

Power supply (rated)	7.4 V DC (Battery), 9.5 V DC (DC IN)
Power consumption	Using viewfinder: 3.9 W Using LCD screen: 4.8 W
Television system	EIA standard (525 lines, 60 fields) NTSC color signal
Video recording system	2 rotary heads, helical scanning system DV system (Consumer digital VCR SD system) Digital component recording.
Audio recording system	PCM digital sound: 16 bit (48kHz/2ch), 12 bit (32kHz/4ch)
Image sensor	1/4" CCD (charge coupled device) approx. 1.33 million pixels (still image recorded onto a memory card: approx. 1.23 million/movie and still image recorded to tape: approx. 690,000 effective pixels)
Tape format	Video cassettes bearing the (Mini DV) mark
Tape speed	SP: 3/4 ips (18.81 mm/s); LP: 1/2 ips (12.56 mm/s)
Maximum recording time (with an 80 min. cassette)	SP: 80 min., LP: 120 min.
Fast forward/rewind time	2 min. 20 sec. (with a 60 min. cassette)
Lens	F1.8-2.1, 10x power zoom, 4.1-41.0 mm
Focusing system	TTL autofocus, manual focusing possible
Minimum focusing distance	3 ft 3 3/8 in. (1 m), 3/8 in (1 cm) on maximum wide angle
Maximum shutter speed	1/1000 (*1/500 when using a memory card)
Minimum illumination	0.5 lx using the Night program during tape recording
Recommended illumination	More than 100 lx
Filter diameter	34 mm
Viewfinder	0.5 inch, color LCD (approx. 113,000 pixels)
LCD screen	2.5 in measured diagonally (approx. 200,000 pixels)
Microphone	Stereo electret condenser microphone
Flash	Built-in, Auto pop-up flash
Recording media	SD Memory Card, MultiMediaCard
Number of recording pixels	Still image: 1280 x 960 pixels, 640 x 480 pixels Movie: 320 x 240 pixels (approx. 10 sec.), 160 x 120 pixels (approx. 30 sec.) *The figures in brackets represent the maximum length of one movie clip.
Image format	Design rule for Camera File system (DCF), Exif 2.2 compliant, Digital Print Order Format (DPOF) compliant (only images marked for printing)
File Format	Still image: JPEG (compression mode: Superfine/Fine/Standard) Movie: Motion JPEG

Estimated SD Memory Card SDC-8M capacities*	1280 x 960: Superfine 6 images/Fine 10 images/Standard 18 images, 640 x 480: Superfine 34 images/Fine 50 images/Standard 84 images *The actual number varies depending on the images. Sample images recorded on the supplied SD Memory Card are to be included in the total number.
USB terminal (USB 2.0 compliant)	mini-B
DV terminal input/output	Special 4 pin connector (based on IEEE1394)
Video terminal	1 Vp-p/75 ohms unbalanced
S-video terminal	1 Vp-p (Y signal), 0.286 Vp-p (C signal)
Audio terminal	Input level: -10 dBV/at least 40 kohms, unbalanced; Output level: -10 dBV (47 kohms load), less than 3 kohms, unbalanced
Operating temperature range	32 - 104° F (0 - 40° C)
Dimensions	2 3/8 x 4 1/4 x 4 1/4 in (60 x 119 x 118 mm)
Weight	1 lb 2 1/4 oz (530 g)

System requirements: DIGITAL VIDEO SOLUTION DISK

Interface: USB: only preinstalled Windows 98/Windows Me/Windows 2000/Windows XP systems with built-in USB ports, or only systems equipped with genuine Apple-brand built-in USB interfaces.

Operating System	CPU	RAM
Windows	Windows 98	150MHz or better
	Windows Me/Windows 2000	150MHz or better
	Windows XP	300MHz or better
Macintosh	Mac OS 8.6-9.2	PowerPC
	Mac OS X (10.1)	PowerPC
Operating System	Free hard disk space	
Windows	ZoomBrowser EX	120MB or more
	PhotoStitch	40MB or more
	Canon Camera TWAIN Driver	25MB or more
	Canon Camera WIA Driver	25MB or more
	ArcSoft PhotoImpression	125MB or more
	ArcSoft VideoImpression	30MB or more
Macintosh	ImageBrowser	20MB or more
	PhotoStitch	30MB or more
	USB Mounter	5MB or more
	ArcSoft PhotoImpression	120MB or more
	ArcSoft VideoImpression	30MB or more

THE CANON OPTURA200 MC KIT

- OPTURA200 MC
- BP-512 Battery Pack
- CA-560 Compact Power Adapter
- WL-D78 Wireless Controller
- S-150 S-video Cable
- STV-250N Stereo Video Cable
- SDC-8M SD Memory Card
- Software/USB Cable
- Lens Hood

DV NETWORK SOLUTION DISK

Interface: IEEE1394: only preinstalled Windows XP Home Edition or Windows XP Professional systems with built-in IEEE1394 terminal

CPU	500 MHz or better (800 MHz or better recommended)
RAM	128 MB or more (256 MB or more recommended)
Free Hard Disk Space	AV/C Camera Storage Subunit-WIA Driver 1 MB or more DV Messenger 100 MB or more
Other	Windows Messenger Version 4.5 or higher

- To use DV Messenger, it is required that Windows Messenger 4.5 or higher operates correctly.
- It is required that Windows Messenger operates and the videoconference function can be used with a digital camcorder. Please consult Microsoft for details.
- If you are using a router, make sure it is an UPnP (Universal Plug and Play) compatible router. For details, consult your Internet service provider, telephone carrier, or refer to the manual of the router.
- We recommend using a broadband Internet connection.
- The communication quality and connectivity depend on the congestion of the Internet line and service.
- This product does not guarantee a certain communication quality.

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U.S.A.	CANON U.S.A., INC. Consumer Information Center toll-free at 1-800-828-4040 (in U.S.A.) One Canon Plaza, Lake Success, NY 11042 USA
CANADA	CANON CANADA INC. Consumer Information Center toll-free at 1-800-828-4040 (in Canada) 6399 Dixie Road, Mississauga, Ontario L5T 1P7
MEXICO	CANON MEXICANA, S. DE R. L. DE C. V. Periferico Sur No.4124 Col. Ex-Rancho de Anzaldo C.P. 01900 Mexico, D.F.
CENTROY SURAMERICA	CANON LATIN AMERICA, INC. 6505 Blue Lagoon Drive Suite 325 Miami FL 33126 USA
ASIA	CANON HONGKONG COMPANY LTD. 9/F, The Hong Kong Club Building, 3A Chater Road, Central, Hong Kong

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